FFFFFFFFFFFFFFFFFFFF	00000000 00000000 00000000	RRRRRRRRRRRR RRRRRRRRRRRR RRRRRRRRRRRR	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	LLL
FFF	000 000		RRR RRR	TTT	III
FFF	000 000		RRR RRR	TTT	LLL
FFF	000 000	RRR RRR	RRR RRR	TTT	LLL
FFF	000 000		RRR RRR	TTT	LLL
FFF	000 000	RRR RRR	RRR RRR	TTT	LLL
FFF	000 000	RRR RRR	RRR RRR	III	LLL
FFFFFFFFFF	000 000		RRRRRRRRRRR	III	LLL
FFFFFFFFFF	000 000	RRRRRRRRRRR	RRRRRRRRRRR	III	LLL
FFFFFFFFFF	000 000		RRRRRRRRRRR	III	LLL
FFF	000 000		RRR RRR	III	LLL
FFF	000 000		RRR RRR	III	LLL
FFF	000 000		RRR RRR	III	rrr
FFF	000 000	RRR RRR	RRR RRR	III	LLL
FFF	000 000		RRR RRR	III	LLL
FFF	000 000		RRR RRR	III	LLL
FFF	00000000	RRR RRR	RRR RRR	III	LLLLLLLLLLLLLLLL
FFF	00000000	RRR RRR	RRR RRR	III	LLLLLLLLLLLLLLLL
FFF	00000000	RRR RRR	RRR RRR	TTT	LLLLLLLLLLLLLLL

FFFFFFFFF FFFFFFFFF FF FF FFFFFFFF FF F	000000 00 00 00 00	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	NN NN NN NN NN NN NN NN NNNN NN NNNN NN NN NN	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	000000 00 00 00 00	MM MM MMM MMM MM MM MM MM MM MM MM MM M
		\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$ \$\$ \$\$ \$\$ \$\$				
		\$\$ \$\$\$\$\$\$\$ \$\$\$\$\$\$\$ \$\$				

FOR 1-0

FOR

FORSENCODE_MO - entry point for FORTRAN ENCODE OBJECT-FORMATTED /1-011/ File: FORENCOMO.MAR Edit: JAW1011

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FACILITY: FORTRAN Support Library - user callable

ABSTRACT:

222234567890123345

0000 0000 0000

0000

0000 0000 0000

This module contains the entry point for the FORTRAN ENCODE OBJECT-FORMATTED I/O statement. It is simply a call to FOR\$\$IO_BEG with bits in RO which describe the parameter list. FOR\$\$IO_BEG interprets the parameters.

MAINTENANCE NOTE:

The transfer vector (RTLVECTOR+ALLGBL) must have the following:

.TRANSFER FORSENCODE MO FOR\$\$10_BEG FOR\$ENCODE_MO+2 .MASK BRW

This puts the correct mask in entry vector, that is FOR\$\$10_BEG entry mask. Furthermore this module must only use RO and R1 since any other register might not be in the entry mask for FOR\$\$10_BEG.

ENVIRONMENT: User access mode; mixture of AST level or not

AUTHOR: Richard B. Grove, CREATION DATE: 28-May-78

MODIFIED BY: T. Hastings, 29-July-78

FOR

1-0

**

```
FORSENCODE_MU
```

```
- entry point for FORTRAN ENCODE OBJECT- 15-SEP-1984 23:51:52 VAX/VMS Macro VO4-00 DECLARATIONS 6-SEP-1984 10:55:04 [FORRIL.SRC]FORENCOMO.MAR;1
      .SBTTL DECLARATIONS
                        INCLUDE FILES:
                                 SFORPAR
                                                                             : Define inter-module FORTRAN symbols : Define statement type symbols
                                 SISBDEF
                        EXTERNAL SYMBOLS:
                                 .DSABL
                                                                             : Declare all external symbols
                                 .EXTRN FOR$$10_BEG
                                                                             ; common 1/0 statement processing
                     The following references are to make sure the necessary UDF and REC modules are loaded. These are the routines which are called through the dispatch tables in FOR$$DISPAT.
                100
                 101
                104 :-
                                 .EXTRN FORSSUDF_WFO, FORSSUDF_WF1, FORSSUDF_WF9
.EXTRN FORSSREC_WMF0, FORSSREC_WMF1, FORSSREC_WMF9
                106
                     : The following reference makes sure the format compiler is loaded.
                109
                110
                                 .EXTRN FORSSFMT_COMPIL
                112
                        MACROS:
                114
                                 NONE
                116
                        PSECT DECLARATIONS:
                118
.PSECT _FOR$CODE PIC,USR,CON,REL,LCL,SHR,EXE,RD,NOWRT,LONG
                122
123
124
125
126
127
128
129
130
                        EQUATED SYMBOLS:
                         OWN STORAGE:
                                 NONE
```

```
FORSENCODE_MO
```

```
- entry point for FORTRAN ENCODE OBJECT- 15-SEP-1984 23:51:52 VAX/VMS Macro VO4-00 FORSENCODE_MO - ENCODE OBJECT-FORMATTED 6-SEP-1984 10:55:04 [FORRTL.SRC]FORENCOMO.MAR;1
                                                       .SBTTL FORSENCODE_MO - ENCODE OBJECT-FORMATTED
                           0000
0000
0000
0000
0000
0000
0000
                                           : FUNCTIONAL DESCRIPTION:
                                                       Initialize the FORTRAN I/O system to perform a ENCODE OBJECT-FORMATTED I/O statement.
                                              CALLING SEQUENCE:
                                                       14489012334567890
115534567890
                                              INPUT PARAMETERS:
                                                                                           logical unit number format string (needs compilation) adr. of user's buffer optional ERR= address optional END= address
                                                       unit.rl.v
                                                       format_adr.rt.r
usr_buf_adr.wt.ra
[err_adr.j.r]
[end_adr.j.r]
                                              IMPLICIT INPUTS:
                                                       NONE except those used by FOR$$10_BEG.
                                              OUTPUT PARAMETERS:
                                                       NONE
                                      161
                                     162
                                              IMPLICIT OUTPUTS:
                                     164
                                                       NONE except those left by FOR$$10_BEG.
                                      165
                                              COMPLETION CODES:
                                     167
                                     168
                                                       NONE
                                      169
                                     170
171
172
173
174
175
                                              SIDE EFFECTS:
                                                       NONE except those of FOR$$10_BEG.
                                           FORSENCODE MO:: .MASK FOR$$10 BEG
MOVZWL #ISB$K ST TY WMF+
<1@FOR$V OBJ FMT>, RO
JMP G^FOR$$10_BEG+2
                                     176
177
178
179
180
181
182
     010B 8F
                                                                                                       ; Statement type
00000002 GF
                    17
                                                                                                       ; branch past call mask
                           000D
                                                        .END
```

```
- entry point for FORTRAN ENCODE OBJECT- 15-SEP-1984 23:51:52 6-SEP-1984 10:55:04
                                                                                                                                                          VAX/VMS Macro V04-00
[FORRTL.SRC]FORENCOMO.MAR; 1
FORSENCODE MO
Symbol table
FORSSFMT COMPIL
                                                                              FORSSIO BEG
FORSSREC WMFO
FORSSREC WMF1
FORSSREC WMF9
FORSSUDF WF0
FORSSUDF WF1
FORSSUDF WF1
                                                      *******
                                                     00000000
FORSENCODE_MO
FORSV_OBJ_FMT
ISBSK_ST_TY_WMF
                                                   = 0000000B
                                                                                 Psect synopsis
PSECT name
                                                    Allocation
                                                                                     PSECT No.
                                                                                                      Attributes
     ABS
                                                    00000000
                                                                                                       NOPIC
                                                                                                                             CON
                                                                                                                                       ABS
                                                                                                                                                 LCL NOSHR NOEXE NORD
 FOR$CODE
                                                    0000000D
                                                                                                         PIC
                                                                                                                   USR
                                                                                                                             CON
                                                                                                                                                          SHR
                                                                                                                                                                    EXE
                                                                                                                                                                                    NOWRT NOVEC LONG
                                                                                                                                                                              RD
                                                                            Performance indicators !
Phase
                                         Page faults
                                                                 CPU Time
                                                                                         Elapsed Time
                                                                 00:00:00.08
00:00:00.63
00:00:01.27
00:00:00.19
00:00:00.53
00:00:00.02
00:00:00.02
                                                    118
                                                                                          00:00:00.51
Initialization
                                                                                          00:00:03.98
Command processing
                                                    128
                                                                                         00:00:04.92
Pass 1
Symbol table sort
                                                      56320
                                                                                         00:00:01.97
Pass 2
                                                                                          00:00:00.06
Symbol table output
Psect synopsis output
                                                                                          00:00:00.05
                                                                                          00:00:00.00
Cross-reference output
Assembler run totals
                                                                                          00:00:11.82
The working set limit was 1050 pages.
6710 bytes (14 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 188 non-local and 0 local symbols.
182 source lines were read in Pass 1, producing 8 object records in Pass 2.
9 pages of virtual memory were used to define 2 macros.
```

! Macro library statistics !

Macro Library name

\$255\$DUA28:[FORRTL.OBJ]FORRTL.MLB;1

\$255\$DUA28:[SYSLIB]STARLET.MLB;2

TOTALS (all libraries)

Macros defined

2

183 GETS were required to define 2 macros.

There were no errors, warnings or information messages.

FORSENCODE_MO - entry point for FORTRAN ENCODE OBJECT- 15-SEP-1984 23:51:52 VAX/VMS Macro VO4-00 Page 6 VAX-11 Macro Run Statistics 6-SEP-1984 10:55:04 [FORRTL.SRC]FORENCOMO.MAR;1 (4)

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:FORENCOMO/OBJ=OBJ\$:FORENCOMO MSRC\$:FORENCOMO/UPDATE=(ENH\$:FORENCOMO)+LI

0180 AH-BT13A-SE

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